

## 5.3 DAY 1 WORKSHEET - Slope Intercept Form (5B)

Write the equation of each line given its slope ( $m$ ) and  $y$ -intercept ( $b$ ). Write the exercise number in front of the corresponding answer listed in the grid. To spell out the answer at the bottom of the page, refer to the grid and write the code letter that corresponds to the exercise number given.



**Tip:** When plugging  $m$  and  $b$  values into the equation  $y = mx + b$ , don't forget to include negative symbols when given. For example, when  $m = -4$  and  $b = -6$ , the equation is  $y = -4x - 6$ .

1.  $m = 2, b = -5$   $y = 2x - 5$
2.  $m = 1/3, b = 2$   $y = \frac{1}{3}x + 2$
3.  $m = -4, b = -3$   $y = -4x - 3$
4.  $m = -1/2, b = 8$   $y = -\frac{1}{2}x + 8$
5.  $m = -3, b = -4$   $y = -3x - 4$
6.  $m = -1/3, b = -2$   $y = -\frac{1}{3}x - 2$
7.  $m = -5, b = 2$   $y = -5x + 2$
8.  $m = -10, b = -9$   $y = -10x - 9$
9.  $m = 8, b = -1/2$   $y = 8x - \frac{1}{2}$
10.  $m = 2, b = 1/3$   $y = 2x + \frac{1}{3}$
11.  $m = -1, b = 0$   $y = -1x$
12.  $m = 1, b = -1$   $y = 1x - 1$
13.  $m = 0, b = -5$   $y = 0x - 5 = -5$
14.  $m = -1, b = -1$   $y = -1x - 1 = -x - 1$

Code Letter	Exercise #	Answer
A	11	$y = -x$
C	9	$y = 8x - 1/2$
D	14	$y = -x - 1$
E	2	$y = 1/3x + 2$
F	10	$y = 2x + 1/3$
I	1	$y = 2x - 5$
L	7	$y = -5x + 2$
M	4	$y = -1/2x + 8$
N	12	$y = x - 1$
O	8	$y = -10x - 9$
R	3	$y = -4x - 3$
T	6	$y = -1/3x - 2$
U	13	$y = -5$
Y	5	$y = -3x - 4$

Answer:

CLEAR YOUR MIND  
 9 7 2 11 3 5 8 13 3 4 1 12 14  
 OF CANT II  
 8 10 9 11 12 6

# Why Did Zorna Pour Ketchup on Her Brother's Hand?

Complete the table for each equation. Find each answer in the code key and notice the letter next to it. Write this letter in the box at the bottom of the page that contains the circled number in that row of the table.

1	$y = -2x$	
x	y	
1	-2	1
4	-8	2
-5	10	3
3	-6	4

2	$y = 4 + 2x$	
x	y	
3	10	5
-7	-10	6
1	6	7
-3	-2	8

3	$y = -3x + 1$	
x	y	
3	-8	9
-3	10	10
4	-11	11
-2	7	12

4	$y = \frac{1}{2}x - 4$	
x	y	
10	1	13
-2	-5	14
4	-2	15
-8	-8	16

5	$y = -x + 6$	
x	y	
4	2	17
-1	7	18
6	0	19
0	6	20

6	$y = -\frac{3}{2}x - 2$	
x	y	
4	-8	21
2	-5	22
0	-2	23
-2	1	24

7	$y = 7 - 3x$	
x	y	
6	-11	25
1	4	26
0	7	27
-2	13	28

8	$y = 1 - x$	
x	y	
-2	3	29
-9	10	30
9	-8	31
6	-5	32

CODE KEY	
13	L
10	R
7	A
6	T
4	P
3	M
2	W
1	I
0	N
-2	H
-5	D
-6	B
-8	E
-10	O
-11	S

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32  
 H E R B R O T H E R S A I D H E W A N T E D H I S P A L M R E D